

ABSTRACT

A two-phase cooling apparatus for cooling an electronic assembly is disclosed. The apparatus comprises an evaporator having a single-phase inlet for receiving a
5 single-phase liquid coolant and a two-phase outlet for discharging a two-phase
coolant. A local condenser is disposed proximate the evaporator and has a two-phase
inlet coupled to the evaporator outlet. The local condenser includes a single-phase
liquid coolant outlet. The apparatus further includes a pump having an output coupled
to the evaporator inlet, and an input coupled to the local condenser outlet.

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